## IN THE CLAIMS

Applicant amends the Claims as follows:

Claims 1-8 have been previously canceled.

## 9. (Previously Presented and Previously Twice Amended)

A selectable waveguide arrangement for respectively communicating first or second or third signals from an antenna feed to respective first and second and third probes, the selectable waveguide arrangement comprising a front end selectable waveguide and a back end selectable waveguide, wherein,

the front end selectable waveguide comprises:

an antenna feed port coupled to the antenna feed for communicating the first and second and third signals between the antenna feed and the first and second and third probes, respectively;

- a first front end waveguide section having a first front end shape for coupling to the antenna feed port for communicating the second and third signals;
- a first front end port for coupling to the back end selectable waveguide for communicating the second and third signals between the antenna feed port and the back end selectable waveguide;
- a second front end waveguide section having a second front end shape for coupling to the antenna feed port for communicating the first signal;

a second front end port for coupling the first probe to the second front end waveguide section for communicating the first signal between the antenna feed port and the first probe through the second front end waveguide section; and

a front end element for supporting the first front end waveguide section and the second front end waveguide section, the front end element has a first front end position for communicating the second and third signals between the antenna feed port through the first front end waveguide section through the first front end port to the back end selectable waveguide, the front end element has a second front end position for communicating the first signal between the antenna feed port through the second front end waveguide section through the second front end waveguide section through the

the back end selectable waveguide comprises:

a back end input port coupled to the first front end port for communicating the second and third signals between the first front end port respectively to the second and third probes;

a first back end waveguide section having a first back end shape for coupling to the back end input port for communicating the second and third signals;

a first back end port for coupling to the first back end waveguide section for communicating the third signal between the back end input port and the third probe through the first back end waveguide section;

a second back end waveguide section having a second back end shape for coupling to the back end input port for communicating the second signal;

a second back end port for coupling the second back end waveguide section to the second probe for communicating the second signal between the back end input port and the second probe through the second back end waveguide section; and

a back end element for supporting the first back end waveguide section and the second back end waveguide section, the back end element has a first back end position for communicating the third signal between the back end input port through the first back end waveguide section through the first back end position for communicating the second signal between the back end position for communicating the second signal between the back end input port through the second back end waveguide section through the second back end port to the second probe, one of the first and second front end shapes is straight and the other is bent at ninety degrees, one of the third and fourth back end shapes is straight and the other is bent at ninety degrees, the first and second and third and fourth waveguide sections have cross sections selected from the group of square and circular.

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10. (Previously Presented and Previously Amended)

The selectable waveguide arrangement of claim 9 wherein,
the first front end waveguide section shape is straight
and uniform in cross section and extends from the antenna feed
port to the first front end port,

the first back end waveguide section shape is straight and uniform in cross section and extends from the back end input port to the first back end port,

the second front end waveguide section shape is bent at ninety degrees having a forty-five degree reflective surface and uniform in cross section and extends from the antenna feed port to the second front end port, and

the second back end waveguide section shape is bent at ninety degrees having a forty-five degree reflective surface and uniform in cross section and extends from the back end input port to the second back end port.

11. (Currently Twice Amended and Previously Presented)

The selectable waveguide arrangement and claim 9 wherein, the first and second front end waveguide sections have a <a href="larger smaller">larger smaller</a> cross section than the first and second back end waveguide sections, respectively.

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12. (Currently Twice Amended and Previously Presented)

The selectable waveguide arrangement of claim 9, wherein the second and third signals are respective polarized signals and are orthogonally polarized with respect to respecting each other.

13. (Previously Presented) The selectable waveguide arrangement of claim 9, wherein the first front end port is a tapered port for attenuating low frequency components of the second and third signals.

14. (Previously Presented and Previously Twice Amended)

The selectable waveguide arrangement of claim 9, wherein the third signal comprises a fourth signal and a fifth signal, the selectable waveguide arrangement is coupled to a fourth probe and a fifth probe, the selectable waveguide arrangement further comprises,

a coupler coupled to the first front end port and comprising a fourth port and fifth port respectively coupled to the fourth and fifth probes, the fourth and fifth signals are orthogonally polarized with respect to each other and the fourth and fifth probes are polarization sensitive to respectively communicate the fourth and fifth signals between the antenna feed port and the fourth and fifth probes through the first front end waveguide section and fourth and fifth ports.

## 15. (Currently Amended and Previously Presented

A selectable waveguide having a first position and a second position for respectively communicating first or second signals from an antenna feed to respective first and second probes, the selectable waveguide comprising,

an antenna feed port coupled to the antenna feed for communicating the <u>respective</u> signals between the antenna feed and the first and second probes,

a first waveguide section having a first shape and a first cross-section for coupling to the antenna feed port for communicating the first signal, the first shape is straight,

a first port for coupling the first probe to the first waveguide section for communicating the first signal between the first probe and the first waveguide section,

a second waveguide section having a second shape and a second cross-section for coupling to the antenna feed port for communicating the second signal, the second shape is bent at ninety degrees with a forty-five degree reflective surface,

a second port for coupling the second probe to the second waveguide section for communicating the second signal between the second probe and the second waveguide section, the first and second cross sections are selected from the group consisting of square and circular, the first and second shapes and the first and second cross sections enable concurrent isolated communications of the first and second signals through either one of the first and second waveguide sections when the first and second signals are orthogonally polarized with respect to respecting each other, and

an element for supporting the first and second waveguide sections, the element having a first position for communicating the first signal between the antenna feed port through the first waveguide section to the first port, the element having a second position for communicating the second signal between the antenna feed port through the second waveguide section to the second port.

16. (Currently Amended and Previously Presented)

13 The selectable waveguide of claim 15 wherein,

14 | the element is a rotating element,

the first signal is a first polarized signal,

the first-waveguide shape is straight,

the second signal is a second polarized signal,

the second waveguide shape is bent at ninety degrees

19 having a forty-five degree reflective surface, and

the selectable waveguide is for selecting the communication of either the first or second polarized signals, wherein the first and second polarized signals being orthogonal with respect to each other.

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The selectable waveguide of claim 15 wherein, the element is a rotating element, the first signal is a circularly polarized signal, the first-waveguide shape is straight, the second signal is a linearly polarized signal, the second waveguide-shape is bent at ninety degrees having a forty-five degree reflective surface, and the selectable waveguide is for selectively communicating either the circularly polarized signal or the linearly polarized signal. 

17. (Currently Amended and Previously Presented)

## 18. (Currently Amended and Previously Presented)

A selectable waveguide having a first position and a second position for respectively communicating first or second signals from an antenna feed to respective first and second probes, the selectable waveguide comprising,

an antenna feed port coupled to the antenna feed for communicating the <u>respective</u> signals between the antenna feed and the first and second probes,

a first waveguide section having a first shape and a first cross-section for coupling to the antenna feed port for communicating the first signal, the first shape is straight,

a first port for coupling the first probe to the first waveguide section for communicating the first signal between the first probe and the first waveguide section,

a second waveguide section having a second shape and a second cross-section for coupling to the antenna feed port for communicating the second signal, the second shape is bent at ninety degrees with a forty-five degree reflective surface,

a second port for coupling the second probe to the second waveguide section for communicating the second signal between the second probe and the second waveguide section, the first and second cross sections are selected from the group consisting of square and circular, the first and second shapes and the first and second cross sections enable concurrent isolated communications of the first and second signals through either one of the first and second waveguide sections when the first and second signals are orthogonally polarized with respect to respecting each other, and

an element for supporting the first and second waveguide sections, the element having a first position for communicating the first signal between the antenna feed port through the first waveguide section to the first port, the element having a second position for communicating the second signal between the antenna feed port through the second waveguide section to the second port,

wherein:,

the second signal comprises a high frequency signal and a low frequency signal;

the reflective surface is a frequency selective reflective surface for reflecting the low frequency signal to the second port and for passing the high frequency signal to the first port; and

the second waveguide section comprises a waveguide extension extending from the frequency selective reflective surface and the first port for communicating the high frequency signal to the first probe through the first port when the selectable waveguide is in the second position.

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